# Disaster Recovery Setup (ASR)

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**Overview:**

Azure site recovery helps to business continuity and disaster recovery (BCDR). Keeps applications online during planned and unplanned outages. Site recovery manages on-premises machines and Azure virtual machines including replication, failover, and recovery.
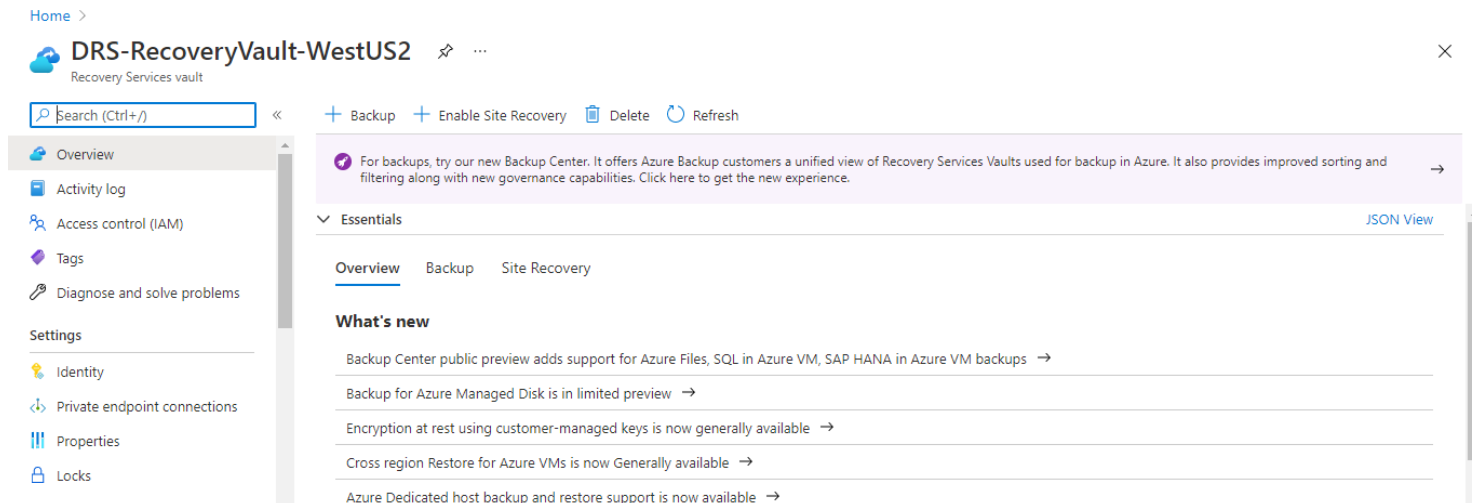
**Pre-requisites:**

Below resources need to be create at Target site (DR).

- Recovery Service Vault
- Resource Group
- Virtual Network
- Subnets
- Availability Sets
- Load balancers

Steps:

1. Open recovery server vault

2. Then click on the **Enable Site Recovery** option.



3. Select the below option Enable Replication.

4. Redirect the next there need to provide source details as given below:



5. Select the respective servers which need to replicate.

6. Provide the target (DR) details like (Region, Subscription and required information).

## Enable replication ⋯

✅ Source  ✅ Virtual machines  ③ Replication settings

Target location *  ⓘ

West US 2                                                                    ⌄

Target subscription        ✏ Customize

Microsoft Azure Enterprise-DR

⚠ If you are choosing General Purpose v2 storage accounts, ensure that operations and data transfer prices are understood clearly before you proceed. Learn more

Resource group, Network, Storage and Availability        ✏ Customize
By default Site Recovery will mirror the source site configuration to target site by creating/using the required resource groups, storage accounts, virtual network and availability sets as below. Click 'Customize' above to change the configuration. All newly

Home > Recovery Services vaults > DRS-RecoveryVault-WestUS2 > Enable replication >

## Customize target settings  ⋯                                              ✕

ⓘ By default, Site Recovery will mirror the source site configuration to target site by creating/using the required resource groups, storage accounts, virtual network, managed disks and availability sets. You can change the settings below.

General settings

Target resource group

| ~~███████████████~~ | ⌄ |

Target virtual network ⓘ

| ~~████████████~~R | ⌄ |

VM settings

| VM Name | Source managed disk | Replica managed disk | Cache storage | Disk to replicate | Target availability type | Target proximity placement ... |
|---|---|---|---|---|---|---|
| ▼ SWIAAPDMZDNN-AS-P... | | | | | ~~███████████~~i2 ⌄ | Select ⌄ |
| ~~██████████████~~ | 2 managed disks | 2 managed disks | (new) ysg13pdrsrecov... ⌄ | | | |

VM settings

| VM Name | Source managed disk | Replica managed disk | Cache storage | Disk to replicate | Target availability type | Target proximity placement ... |
|---|---|---|---|---|---|---|
| ▼ ~~████████████~~... | | | | | ~~██████████████~~2 ⌄ | Select ⌄ |
| ~~████████████~~ | 2 managed disks | 2 managed disks | (new) ysg13pdrsrecov... ⌄ | | | |
| | [Premium SSD] ~~█████████~~.. | (new) [Premium SSD] ... ⌄ | | ☑ include | | |
| | [Premium SSD] ~~█████████~~.. | (new) [Premium SSD] ... ⌄ | | ☑ include | | |
| ~~██████████████~~ | 2 managed disks | 2 managed disks | (new) ysg13pdrsrecov... ⌄ | | | |
| | [Premium SSD] ~~█████████~~.. | (new) [Premium SSD] ... ⌄ | | ☑ include | | |
| | [Premium SSD] ~~█████████~~.. | (new) [Premium SSD] ... ⌄ | | ☑ include | | |

OK

7. Then Enable the replication.



8. Click the notification it will redirect to the status recovery job which is created by automatically.



**Notifications**

More events in the activity log →                Dismiss all  ∨

✅ Enabling replication for 2 vm(s)
Successfully completed the operation.

a few seconds ago

Home >

**Site Recovery jobs** ...
DRS-RecoveryVault-WestUS2

∇ Filter   📥 Export jobs

🔍 Filter items...

| Name | ↑↓ | Status | ↑↓ | Type | ↑↓ | Item | ↑↓ | Start time | ↑↓ | Duration | ↑↓ |
|------|----|--------|----|------|----|------|----|-----------|----|---------|----|
| Enable replication | | ✅ Successful | | Protected item | | swiaapdmzdnnp02 | | 4/20/2021, 12:32:11 PM | | 00:06:53 | |
| Enable replication | | ✅ Successful | | Protected item | | swiaapdmzdnnp01 | | 4/20/2021, 12:32:10 PM | | 00:07:05 | |
| Associate replication policy | | ✅ Successful | | Replication policy | | 24-hour-retention-policy | | 4/20/2021, 12:30:32 PM | | 00:01:15 | |
| Map Networks | | ✅ Successful | | Network | | drs-net-amer | | 4/20/2021, 12:28:54 PM | | 00:00:01 | |
| Associate replication policy | | ✅ Successful | | Replication policy | | 24-hour-retention-policy | | 4/20/2021, 12:28:53 PM | | 00:01:30 | |
| Map Networks | | ✅ Successful | | Network | | prd-net-amer | | 4/20/2021, 12:28:14 PM | | 00:00:02 | |
| Create protection container | | ✅ Successful | | Cloud | | asr-a2a-default-westus2-container | | 4/20/2021, 12:28:14 PM | | 00:00:00 | |
| Create a site | | ✅ Successful | | Server | | asr-a2a-default-westus2 | | 4/20/2021, 12:26:58 PM | | 00:01:08 | |
| Create protection container | | ✅ Successful | | Cloud | | asr-a2a-default-eastus-container | | 4/20/2021, 12:26:58 PM | | 00:00:00 | |
| Create a site | | ✅ Successful | | Server | | asr-a2a-default-eastus | | 4/20/2021, 12:25:39 PM | | 00:01:06 | |

9. Go back to recovery service vault overview page and select replicated items. Here we can find all the replicated VMs information.



10. Edit the compute and network and provide the target VM/Vnet/Subnet/Load Balancer details as per requirement. Before Test failover / Failover.

Network interfaces



11. Once all the respective VMs are replicated to Recovery Service Vault, select the replicated items option in overview it shows replicated VMs.

12. Do the test failover whenever application needed and ask them to do the sanity checks.

**Thank you**